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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		09/943,405	GOLDMAN ET AL.			
Office Action Summary		Examiner	Art Unit			
		Arezoo Sherkat	2131			
The MAILING DATE of this Period for Reply	communication app	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date - If NO period for reply is specified above, the - Failure to reply within the set or extended per	M THE MAILING DA e provisions of 37 CFR 1.13 of this communication. maximum statutory period w iod for reply will, by statute, ee months after the mailing	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the state of the state	NN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
Responsive to communicate This action is FINAL. Since this application is in colosed in accordance with terms.	2b)∏ This condition for allowar	action is non-final.				
Disposition of Claims						
4)	is/are withdraved. d. ted to.	vn from consideration.				
Application Papers						
	is/are: a) acce any objection to the including the correct	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing	Review (PTO-948)	4) Interview Summar				
Notice of Draitsperson's Patent Drawing Information Disclosure Statement(s) (PT Paper No(s)/Mail Date		5) Notice of Informal 6) Other:				

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Response to Amendment

This office action is responsive to Applicant's amendment received on 11/9/2007.

Claims 1, 2, 4, 10-12, 15, and 17-20 are amended. Claims 1-20 remain pending.

Response to Arguments

Applicant's arguments filed 11/9/2007 have been fully considered but they are not persuasive.

Applicant argues that Rothermel does not disclose "applying logic reasoning to data from a plurality of databases to deduce one or more security goals for a class of network devices comprising the individual network device, wherein the one or more security goals is based on a general security meta policy for a network comprising the individual network device" (Remarks, page 9). Applicant further alleges that Rothermel does not disclose the database engine and the deduction by applying logic reasoning (Remarks, page 10).

Examiner respectfully disagrees and would like to point out that the security policy template contains a number of security policy filter rules that are used to infer/deduce the permitted/allowed policies (i.e., wherein policy filtering is implicitly based on logic reasoning using logical operators such as NOT, AND, OR, For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias", AND logical operator is being used)(col. 10, lines 8-65).

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 11-12, and 17-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Rothermel et al., (U.S. Patent No. 6,678,827 and Rothermel hereinafter).

Regarding claim 1, Rothermel discloses a system for configuring security software on a computer network (col. 5, lines 14-27), the system comprising:

a database engine providing deduction, wherein the database engine applies logic reasoning to data (i.e., policy filtering applies logic reasoning) from a plurality of databases (i.e., network information security log 125 or 165 and security policy information 116) to deduce detailed security rules for network devices based on a

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general security meta policy for the network (i.e., Security Policy Manager Device Management system does include generating a security policy template containing of security policy filter rules, wherein policy filtering is implicitly based on logic reasoning using logical operators such as NOT, AND, OR, For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias", AND logical operator is being used)(col. 6, lines 20-32 and col. 10, lines 8-24 and lines 44-65), wherein the plurality of databases comprises: a network information database associated with the database engine and providing a central repository for a configuration of hardware and software installed on the network (i.e., network security information log 125 and 165)(col. 7, lines 57-67 and col. 8, lines 1-7), and a security goal database associated with the database engine and describing uses that the hardware and software installed on the network are permitted to support (i.e., security policy information 116)(col. 7, lines 3-15).

Regarding claim 11, Rothermel discloses a method for configuring a security software package installed on an individual network device, the method comprising:

using a database engine applying logic reasoning to data (i.e., policy filtering applies logic reasoning) from a plurality of databases (i.e., network information security log 125 or 165 and security policy information 116) to deduce detailed security goals (i.e., Security Policy Manager Device Management system does include generating a security policy template containing of security policy filter rules, wherein policy filtering is

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implicitly based on logic reasoning using logical operators such as NOT, AND, OR,

For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias",

AND logical operator is being used) for a class of network devices comprising the individual network device (i.e., external, optional, and trusted devices based on defined networks: network 1, network 2, ...), wherein the one or more security goals is based on a general security meta policy for the network comprising the individual network device (col. 6, lines 20-32 and col. 10, lines 44-65); and

configuring the security software package (i.e., security device software 132 and 142) using the one or more security goals (i.e., NSD's specific security information)(col. 7, lines 3-56).

Regarding claim 12, Rothermel discloses the method of claim 11, further comprising using a database engine applying logic reasoning to classify the individual network device based on an IP address (col. 11, lines 62-67 and col. 12, lines 1-10), a network topology and one or more services the individual network device provides, and applying rules to the individual network device based on its classification (col. 10, lines 65-67 and col. 11, lines 1-45).

Regarding claims 17, Rothermel discloses a method for configuring a security software package, the method comprising:

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defining one or more security policies for a class of network devices (i.e., security policy templates can be viewed as defining levels of trust given to various specific devices or classes of devices), wherein the security software package is a service running on at least one network device of the class of network devices (i.e., security device software 132 and 142)(col. 6, lines 20-32);

using a database engine (i.e., security policy manger device – Fig. 1) providing deduction to apply logic reasoning to data (i.e., policy filtering applies logic reasoning) from a plurality of databases (i.e., network information security log 125 or 165 and security policy information 116) to deduce detailed security goals (i.e., Security Policy Manager Device Management system does include generating a security policy template containing of security policy filter rules, wherein policy filtering is implicitly based on logic reasoning using logical operators such as NOT, AND, OR, For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias", AND logical operator is being used) for a class of network devices comprising the individual network device (i.e., external, optional, and trusted devices based on defined networks: network 1, network 2, ...), wherein the one or more security goals is based on a general security meta policy for the network comprising the individual network device (col. 6, lines 20-32 and col. 10, lines 44-65), and

using a database engine providing deduction to associate the one or more security goals with the at least one network device (i.e., combining the security policy

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template 300 with the network profile 310 for network 1 to create the security policy 315 for network 1)(col. 10, lines 24-65); and

configuring the security software package (i.e., security device software 132 and 142) on the at least one network device using the one or more security goals (i.e., NSD's specific security information)(col. 7, lines 3-56).

Regarding claim 18, Rothermel discloses a method for configuring security software packages, comprising:

generating a first database containing a configuration of hardware devices and software packages installed on a network (i.e., security policy templates - element 113 on storage 11), wherein the software packages include the security software packages (col. 6, lines 54-67);

defining classes of hardware devices installed on the network (i.e., security policy templates can be viewed as defining levels of trust given to various specific devices or classes of devices), automatically classifying each of the hardware devices into one of the classes of hardware devices using a database engine (i.e., security policy manager device 110) providing deduction (col. 6, lines 7-54);

generating a second database (i.e., network security information log) containing first security goals (col. 7, lines 57-67 and col. 8, lines 1-27);

using a database engine (i.e., security policy manger device – Fig. 1) providing deduction to apply logic reasoning to data (i.e., policy filtering applies logic reasoning) from a plurality of databases (i.e., network information security log 125 or 165 and

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security policy information 116) to deduce detailed security goals for the individual network device, wherein the one or security goals are based on the general security meta policy (i.e., Security Policy Manager Device Management system does include generating a security policy template containing of security policy filter rules, wherein policy filtering is implicitly based on logic reasoning using logical operators such as NOT, AND, OR, For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias", AND logical operator is being used)(col. 6, lines 20-32 and col. 10, lines 44-65); and

configuring the security software package (i.e., security device software 132 and 142) on the at least one network device using the second security goals (i.e., NSD's specific security information)(col. 7, lines 3-56).

Regarding claim 19, Rothermel discloses wherein generating a second database containing a general security meta policy further comprises generating security goals for each class of hardware devices (i.e., network profiles)(col. 6, lines 20-32 and col. 10, lines 44-65 and col. 7, lines 57-67 and col. 8, lines 1-27).

Regarding claim 20, Rothermel discloses the method of claim 19 wherein using the database engine to apply logic reasoning to data from the first and second databases to deduce one or more security goals for the individual network device further comprises using inference to associate the one or more security goals with

individual hardware devices within each class of hardware devices (i.e., Security Policy Manager Device Management system does include generating a security policy template containing of security policy filter rules, wherein policy filtering is implicitly based on logic reasoning using logical operators such as NOT, AND, OR, For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias", AND logical operator is being used)(col. 6, lines 20-32 and col. 10, lines 8-24 and lines 44-65).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-10 and 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rothermel et al., (U.S. Patent No. 6,678,827 and Rothermel hereinafter), in view of Schneier et al., (U.S. Publication No. 2002/0087882 and Schneier hereinafter).

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Regarding claims 4 and 10, Rothermel discloses a configuration tool implemented on a computer-readable medium for use in configuring security software packages on a computer network, the configuration tool comprising:

a description logic database engine, wherein the database engine applies logic reasoning to data (i.e., policy filtering applies logic reasoning) from a plurality of databases (i.e., network information security log 125 or 165 and security policy information 116) to deduce detailed security rules for network devices based on a general security meta policy for the network (i.e., Security Policy Manager Device Management system does include generating a security policy template containing of security policy filter rules, wherein policy filtering is implicitly based on logic reasoning using logical operators such as NOT, AND, OR, For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias", AND logical operator is being used)(col. 6, lines 20-32 and col. 10, lines 8-24 and lines 44-65), wherein the plurality of databases comprises:

a network information database associated with the description logic database engine and providing a central repository for a configuration of hardware and software installed on the network (i.e., network security information log 125 and 165)(col. 7, lines 57-67 and col. 8, lines 1-7);

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a security goal database associated with the description logic database engine and providing security goals describing uses that the hardware and software of the network are permitted to support (i.e., security policy information 116)(col. 7, lines 3-15);

Rothermel further discloses updating some or all of the software components used by the NSDs (i.e., such as intrusion detection and blocking software)(col. 7, lines 39-56), and allowing control for incoming and outgoing packets based on specific senders and recipients and based on specific security policy information (col. 11, lines 1-17).

a first configuration module coupled to the description logic database engine (i.e., a first software component) [for configuring intrusion blocking security software packages], and a second configuration module coupled to the description logic database engine (i.e., a second software component) [for configuring intrusion detecting security software packages], wherein the first configuration module configures the intrusion blocking security software packages based on the configuration of the hardware and software installed on the network and the security goals, and wherein the second configuration module configures the intrusion detecting security software packages based on the configuration of the hardware and software installed on the network and the security goals (i.e., wherein security device software 132 and 142 are intrusion detection and intrusion blocking software packages)(col. 7, lines 39-56).

Schneier further discloses updating customer software, including antivirus signature files and software, firewall software, and router software (par. 35-37).

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include updating customer software, including antivirus signature files and software, firewall software, and router software as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage and implement rapid refinement necessary to combat network attacks (Schneier, par. 7-8).

Regarding claim 15, Rothermel discloses a method for configuring a security software package installed on an individual network device, the method comprising:

using a database engine applying logic reasoning to data (i.e., policy filtering applies logic reasoning) from a plurality of databases (i.e., network information security log 125 or 165 and security policy information 116) to deduce detailed security goals (i.e., Security Policy Manager Device Management system does include generating a security policy template containing of security policy filter rules, wherein policy filtering is implicitly based on logic reasoning using logical operators such as NOT, AND, OR, For example in a policy rules such as "certain FTP connections are allowed only when only from network elements defined as being within the "InformationServices" alias", AND logical operator is being used) for a class of network devices comprising the

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individual network device (i.e., external, optional, and trusted devices based on defined networks: network 1, network 2, ...), wherein the one or more security goals is based on a general security meta policy for the network comprising the individual network device (col. 6, lines 20-32 and col. 10, lines 44-65); and

configuring the security software package using the one or more security goals, wherein the security software package is selected from the group [consisting of an intrusion blocking software package and an intrusion detecting software package] (col. 7, lines 25-56).

Schneier further discloses updating customer software, including antivirus signature files and software, firewall software, and router software (par. 35-37).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include updating customer software, including antivirus signature files and software, firewall software, and router software as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage and implement rapid refinement necessary to combat network attacks (Schneier, par. 7-8).

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Regarding claim 2, Rothermel discloses the system of claim 1. Rothermel does not disclose an event database containing events related to the network, after probing the network for vulnerabilities.

However, Schneier discloses a network intrusion monitoring, detection, and response system, further comprising:

an event database (i.e., problem/event database) associated with the database engine and containing events related to the network, wherein such events include benign network events, suspected network attacks, and actual network attacks (par. 85-86).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include an event database containing events related to the network as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage (Schneier, par. 7).

Regarding claim 3, Rothermel discloses the system of claim 1. Rothermel further provides a GUI for viewing and modifying the existing security policy, which may be

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implemented in an object-oriented language such as Java (col. 12, lines 14-67 and col. 13, lines 1-20).

However, Schneier discloses wherein the database engine is an object-oriented description logic database engine (par. 59).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include wherein the database engine is an object-oriented description logic database engine as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier for easy porting to a wide variety of hardware or be based on certain preexisting commercially available software (Schneier, par. 59).

Regarding claim 5, Rothermel and Schneier disclose the configuration tool implemented on a computer-readable medium of claim 4. Schneier further comprising:

an event database (i.e., problem /event database) associated with the description logic database engine and containing events related to the network (par. 85-86).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include an event database containing events related to the network as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a

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variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage (Schneier, par. 7).

Regarding claim 6, Rothermel and Schneier disclose the configuration tool implemented on a computer-readable medium of claim 5. Schneier further discloses wherein the events contained in the event database includes benign network events, suspected network attacks, and actual network attacks (i.e., events or incidents)(par. 35-38).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include an event database containing events related to the network as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage and to allow for customization and complex data analysis (Schneier, par. 7 and 8).

Regarding claim 7, Rothermel and Schneier disclose the configuration tool implemented on a computer-readable medium of claim 4. Schneier discloses further comprising:

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a system-hardening module coupled to the description logic database engine for automating a process of hardening the network (i.e., mitigating a detected attack)(par. 7-8 and par. 68).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include a system-hardening module coupled to the description logic database engine for automating a process of hardening the network as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage and implement rapid refinement necessary to combat network attacks (Schneier, par. 7-8).

Regarding claim 8, Rothermel and Schneier disclose the configuration tool implemented on a computer-readable medium of claim 7. Schneier further discloses wherein the system-hardening module is context sensitive (par. 7-8).

Regarding claim 9, Rothermel and Schneier disclose the configuration tool implemented on a computer-readable medium of claim 4. Schneier discloses further

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comprising: an audit configuration module coupled to the description logic database engine for probing the network for vulnerabilities (par. 7-8 and par. 35-38).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include a system-hardening module coupled to the description logic database engine for probing the network for vulnerabilities as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage and implement rapid refinement necessary to combat network attacks (Schneier, par. 7-8).

Regarding claim 13, Rothermel discloses the method of claim 11. Rothermel further provides a GUI for viewing and modifying the existing security policy, which may be implemented in an object-oriented programming language such as JAVA (col. 12, lines 14-67 and col. 13, lines 1-20).

However, Schneier discloses wherein the database engine is an object-oriented description logic database engine (par. 59).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include wherein the database engine is an object-

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oriented description logic database engine as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier for easy porting to a wide variety of hardware or be based on certain preexisting commercially available software (Schneier, par. 59).

Regarding claim 14, Rothermel discloses the method of claim 11. Rothermel does not explicitly disclose wherein the security software package is selected from the group consisting of an intrusion blocking software package an intrusion detecting software package.

However, Schneier discloses updating customer software, including antivirus signature files and software, firewall software, and router software (par. 35-37).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify teachings of Rothermel with teachings of Schneier because it would allow to include updating customer software, including antivirus signature files and software, firewall software, and router software as disclosed by Schneier. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Schneier to provide the capability to escalate the handling of the incident according to a variety of predetermined escalation procedures to stop the attack and shut down the vulnerability before the attacker does any damage and implement rapid refinement necessary to combat network attacks (Schneier, par. 7-8).

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Regarding claim 16, Rothermel discloses the method of claim 15, wherein using active inference further comprises automatically classifying the individual network device based on an IP address (col. 11, lines 62-67 and col. 12, lines 1-10), a network topology and one or more services the individual network device provides, and applying rules to the individual network device based on its classification (col. 10, lines 65-67 and col. 11, lines 1-45).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arezoo Sherkat whose telephone number is (571) 272-3796. The examiner can normally be reached on 8:00-4:30 Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Arezoo Sherkat/ Patent Examiner Group 2131 Jan. 9, 2008 AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100